HT and HTultra Glass

Optical glasses with ultra high transmittance

Product description

As part of its extensive portfolio of optical glass types, SCHOTT offers glass variants with superior transmittance. The additional variants with significantly improved transmittance are identified with the suffix “HT” or “HTultra”. These glasses are especially suitable for digital projection and high end optical systems. The prism glasses N-BK7HT, N-SK2HT and N-BAK4HT, the high refractive index glasses N-SF57HTultra and N-SF6HTultra also show superior transmittance values than the respective glass types offered by other suppliers.

Advantages

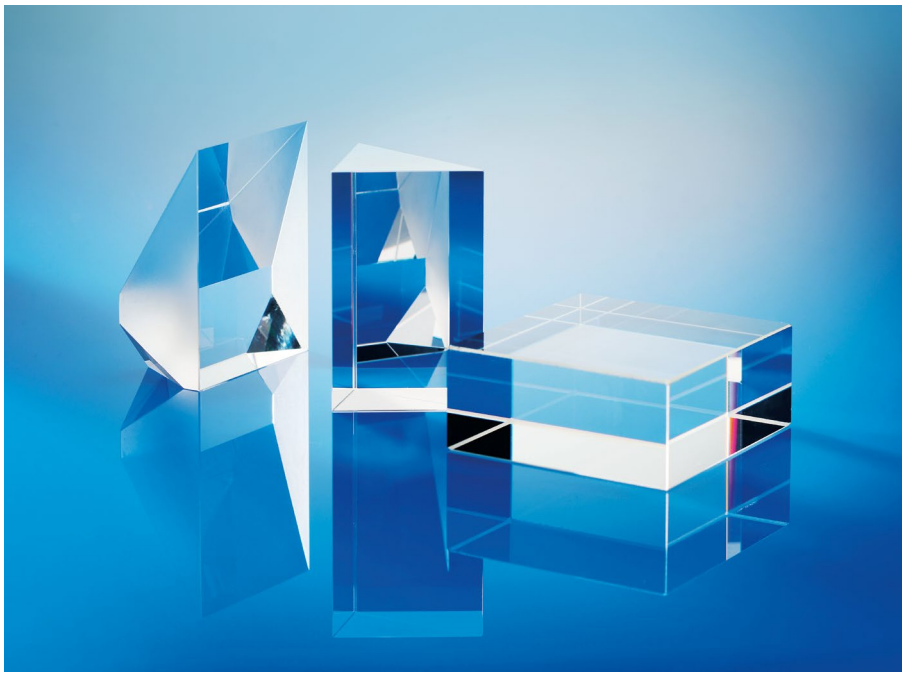
- Improved transmittance especially at the blue violett spectral range
  → improved color rendition, better mesopic vision
- Reduced “thermal lensing effect” due to higher transmittance
  → reduced energy absorption, improved image quality
- Faster polimerization of UV active glues due to better UV transmittance
  → time savings while processing

Applications

- Prisms e.g. for 3D digital cinema projection, digital cameras, binoculars
- Lenses or optical components for High End HDTV and DSLR

Supply forms

- Components (polished prisms, lenses)
- Pressings
- Strips and blocks



HT glass types ensure exceptional color brilliance

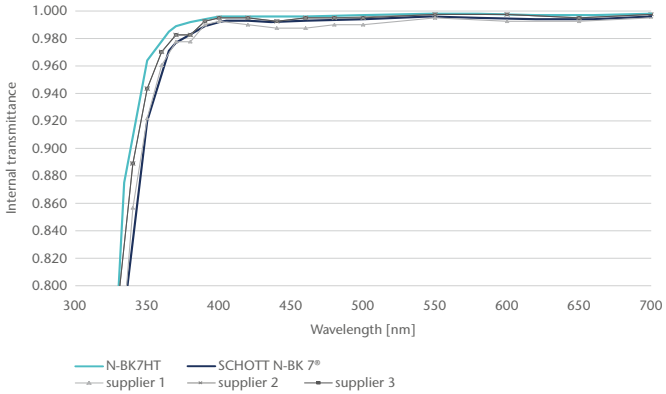
Glass	n_d	ν_d	τi^{**}	Color code
N-BK7HT	1.51680	64.17	0.998	33/29
N-BAK4HT	1.56883	55.98	0.993	36/33
N-SK2HT	1.60738	56.65	0.996	34/30
F2HT	1.62004	36.37	0.996	35/32
SF6HT	1.80518	25.43	0.941	41/36
N-SF6HTultra	1.80518	25.36	0.887	43/37
N-SF6HT	1.80518	25.36	0.877	44/37
SF57HTultra	1.84666	23.83	0.924	39/36*
N-SF57HTultra	1.84666	23.78	0.830	40/37*
N-SF57HT	1.84666	23.78	0.793	41/37*

** wavelength for transmittance 0.7 and 0.05
** 10 mm thickness, 400 nm wavelength

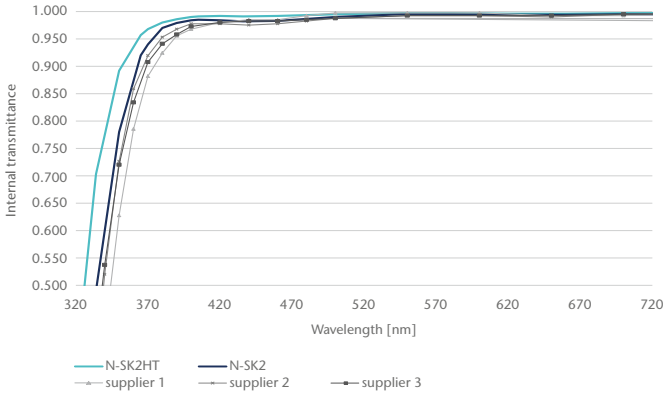
SCHOTT
glass made of ideas

Overview of high transmittance glasses***

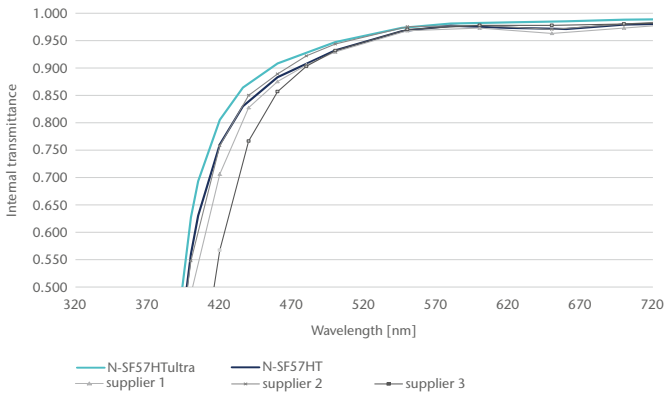
N-BK7HT, n_d = 1.51680, v_d = 64.17



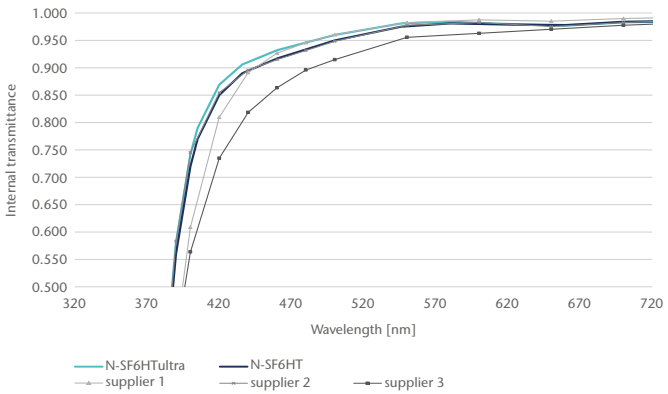
N-SK2HT, n_d = 1.60738, v_d = 56.65



N-SF57HTultra, n_d = 1.84666, v_d = 23.78

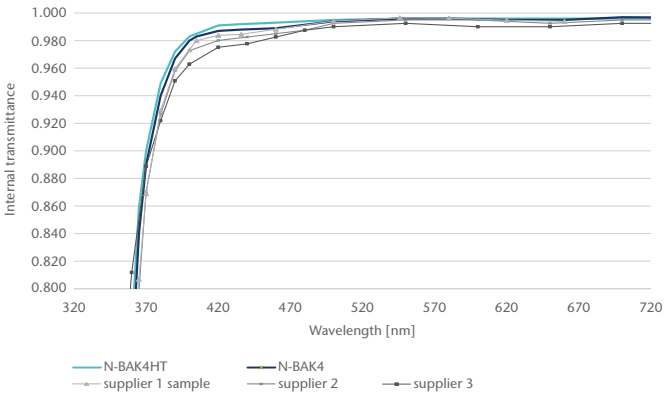


N-SF6HTultra, n_d = 1.80518, v_d = 25.36



*** whereas the internal transmittance curves of standard optical glasses in the datasheet comprise median values for the glass types, “HT” and “HTultra” glass internal transmittance curves are guarenteed minimum values for internal transmittance in the visible spectrum. Shown graphics are valid for 25 mm sample thickness.

N-BAK4HT, n_d = 1.56883, v_d = 55.98



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